

Title (en)

ADDITION CURABLE LIQUID SILICONE RUBBER COMPOSITION AND SILICONE RUBBER CURED ARTICLE

Title (de)

HÄRTBARE FLÜSSIGE SILIKONKAUTSCHUKZUSATZZUSAMMENSETZUNG UND GEHÄRTETER SILIKONKAUTSCHUKARTIKEL

Title (fr)

COMPOSITION D'ADDITION DE CAOUTCHOUC DE SILICONE LIQUIDE DURCISSABLE ET ARTICLE DURCI À BASE DE CAOUTCHOUC DE SILICONE

Publication

EP 2845880 B1 20190403 (EN)

Application

EP 14182825 A 20140829

Priority

JP 2013183864 A 20130905

Abstract (en)

[origin: EP2845880A1] An addition curable silicone rubber composition having high hardness, elongation, tensile strength, and tear strength is provided. The composition comprises (A) an organopolysiloxane containing at least two alkenyl groups bonded to the silicon atoms at the ends of the molecular chain per molecule and no alkenyl group in the middle of the molecular chain, and having a particular viscosity, (B) a resinous copolymer containing R₃SiO^{1/2} and SiO₂ units at a particular ratio, and containing a particular amount of vinyl group, (C) an organohydrogenpolysiloxane having at least two SiH groups per molecule, (D) a fumed silica, (E) at least one silica surface treating agent selected from silane and silazane compounds having at least one alkenyl group per molecule, and (F) an addition catalyst. The composition can produce a silicone rubber cured article having a hardness as measured by a durometer A hardness meter of at least 75 and an elongation at break of at least 300%.

IPC 8 full level

C08L 83/04 (2006.01)

CPC (source: EP)

C08K 3/36 (2013.01); **C08K 5/5425** (2013.01); **C08K 5/56** (2013.01); **C08L 83/00** (2013.01); **C08L 83/04** (2013.01); **C08G 77/12** (2013.01); **C08G 77/20** (2013.01); **C08G 77/70** (2013.01); **C08K 9/06** (2013.01)

Citation (examination)

EP 0091737 A2 19831019 - DOW CORNING [US]

Cited by

WO2016205468A1; EP3101062A1; CN115124718A; US9695301B2; US11453149B2; US11518883B2; US2016369100A1; EP3292168A4; WO2019040265A1; US10266693B2; US11492490B2; US11672648B2

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